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Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: LaBrie et al.

Title: NOVEL HUMAN TUBBY HOMOLOG

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Commissioner for Patents

Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 2A, 2B, 3A, 3B, as eight (8) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108**. **A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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9 18 27 36 45 54
5' NGC ACG AGG TGG GGG CTT TCC TCG GTG GCG GGC ATG GAG GCT TCG CGC TGC CGG
M E A S R C R

63 72 81 90 99 108
CTC AGT CCC AGC GGC GAC AGT GTC TTC CAT GAA GAA ATG ATG ATG CGA CAG
L S P S G D S V F H E E M M K M R Q

117 126 135 144 153 162
GCT AAG CTG GAT TAT CAG AGG CTA CTA CTT GAG AAG AGG CAA AGG AAA AAG CGC
A K L D Y Q R L L L L E K R Q R K R

171 180 189 198 207 216
CTT GAG CCA TTT ATG GTG CAG CCC AAT CCA GAA GCC AGG CTA CGT CGG GCA AAG
L E P F M V Q P N P E A R L R R A K

225 234 243 252 261 270
CCA AGG GCC AGT GAT GAG CAG CAG ACT CCC TTG GTG AAC TGT CAT ACT CCC CAC AGC
P R A S D E Q T P L V N C H T P H S

279 288 297 306 315 324
AAT GTC ATC TTA CAT GGT ATT GAT GGT CCA GGT GTC GTG AAA CCA GAC GAA
N V I L H G I D G P A A V L K P D E

333 342 351 360 369 378
GTT CAT GCT CCA TCA GTA AGC TCC TCT TCT GTT GTG GAA GAA GAT GCT GAA AAC ACC
V H A P S V S S S V V E E D A E N T

FIGURE 1A

Log 8

387 GTG GAT ACT GCT TCC AAG CCA GGA CTT CAG GAG CGT CTC CAA AAG CAT GAT ATC 432
V D T A S K P G L Q E R L Q K H D I

441 TCT GAA AGT GTG AAC TTC GAT GAG ACT GAT GGA ATA TCC CAG TCA GCA TGT 486
S E S V N F D E E T D G I S Q S A C

495 TTA GAA AGA CCC AAT TCT GCA TCA AGC CAG AAT TCA ACC GAT ACA GGC ACT TCC 540
L E R P N S A S S Q Q N S T D T G T S

549 GGT TCT GCT ACT GCC GCC CAA CCA CCA GCT GAT AAC CTC CTG GGA GAC ATA GAC GAC 594
G S A T A A A Q P A D N L L G D I D D

603 CTG GAG GAC TTT GTG TAT AGT CCT GCC CCT CAA GGT GTC ACA GTA AGA TGT CGG 648
L E D F V Y S P A P Q G V T V R C R

657 ATA ATC CGG GAT AAA AGG GGA ATG GAT CGG GGT CTC CTC TTC CCC ACC TAC TAT ATG 702
I I R D K R G M D R G L L F P T Y M

711 TAC TTG GAA AAA GAA GAA AAT CAG AAG ATA TTT CTT CTT GCA GCT AGA AAG CGG 756
Y L E K E E N Q K I F L L A A R K R

FIGURE 1B

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765	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	774	783	792	801	810
AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT	AAA AAG AGC AAA ACA GCC AAC TAC CTT ATC TCC ATT GAT CCA GTT GAT TTA TCT
819	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	828	837	846	855	864
CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG	CGT GAA GGA GAA AGT TAT GTC GGC AAG CTT AGA TCC AAC CTC ATG GGG ACC AAG
873	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	882	891	900	909	918
TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA	TTT ACA GTT TAT GAC CGT GGC ATC TGC CCC ATG AAG GGC CGG GGT TTG GTA GGA
927	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	936	945	954	963	972
GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT	GCG GCC CAC ACC CGG CAG GAG CTG GCT GCC ATC TCC TAT GAA ACA AAC GTA CTT
981	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	990	999	1008	1017	1026
GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT	GGA TTT AAA GGT CCT AGG AAA ATG TCT GTG ATC ATT CCT GGA ATG ACA CTG AAT
1035	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	1044	1053	1062	1071	1080
CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG	CAT AAG CAG ATC CCC TAT CAG CCA CAA AAC AAC CAT GAC AGT TTG CTC TCA AGG
1089	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	1098	1107	1116	1125	1134
TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC	TGG CAG AAC AGA ACT ATG GAA AAT CTG GTT GAG CTG CAC AAC AAG GCC CCC GTC

FIGURE 1C

1143 1152 1161 1170 1179 1188
 TGG AAC AGT GAC ACT CAG TCC TAT GTC CTC AAC TTC CGT GGC CGG GTC ACT CAG
 W N S D T Q S Y V L N F R G R V T Q

1197 1206 1215 1224 1233 1242
 GCG TCT GTG AAG AAC TTC CAG ATA GTC CAC AAA AAT GAC CCT GAT TAT ATA GTC
 A S V K N F Q I V H K N D P D Y I V

1251 1260 1269 1278 1287 1296
 ATG CAG TTT GGA CGT GTG GCA GAT GAC GTG TTC ACA CTG GAT TAC AAC TAC CCA
 M Q F G R V A D D V F T L D Y N Y P

1305 1314 1323 1332 1341 1350
 CTT TGT GCA GTA CAG GCC TTT GGC ATC GGT CTT TCT AGC TTT GAC AAA CGT ATC
 L C A V Q A F G I G L S S F D K R I

1359 1368 1377 1386 1395 1404
 CAA ACC TTG AGA ATG CAG GAG CTC TGT GAG CTC CAC CGT CAG CAC CAT TCA GCT
 Q T L R M Q E L C E L H R Q H H S A

1413 1422 1431 1440 1449 1458
 GCA TCC CTT GTG CAC AGG ACT GCC TGC CAG CGT TGG GTG GGA CAC CCG TGG CGG
 A S L V H R T A C Q R W V G H P W R

1467 1476 1485 1494 1503 1512
 CAG CTC CCT CAG TCT TCC CTT GTC GGC CCT GAC CTN TNA CTA CAT ATG TAG NAG
 Q L P Q S S L V G G P D L X L H M

1521
 CCC GAG ACC AAA AA 3'

FIGURE 1D

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1	M	E	A	S	R	C	R	L	S	P	S	G	D	S	V	F	H	E	E	M	K	M	R	Q	A	K	L	D	Y	Q	R	L	L	L	E	K	R	Q	R	492199	
1	M	-	T	S	K	P	H	S	D	W	I	P	Y	S	V	L	D	D	E	G	S	N	L	R	Q	Q	K	L	D	R	Q	R	A	L	L	E	Q	K	Q	K	GI 1279766
1	M	-	T	S	K	P	H	S	D	W	I	P	Y	S	V	L	D	D	E	G	R	N	L	R	Q	Q	K	L	D	R	Q	R	A	L	L	E	Q	K	Q	K	GI 1305497
41	K	K	R	L	E	P	F	M	V	Q	P	N	P	E	A	R	L	R	R	A	K	P	R	A	S	D	E	Q	T	P	L	V	N	C	H	T	P	H	S	-	492199
40	K	K	R	Q	E	P	L	M	V	Q	A	N	A	D	G	R	P	R	S	R	R	A	R	Q	S	E	E	Q	A	P	L	V	E	S	Y	L	S	S	S	G	GI 1279766
40	K	K	R	Q	E	P	L	M	V	Q	A	N	A	D	G	R	P	R	S	R	R	A	R	Q	S	E	E	Q	A	P	L	V	E	S	Y	L	S	S	S	G	GI 1305497
80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492199			
80	S	T	S	Y	Q	V	Q	E	A	D	S	I	A	S	V	Q	L	G	A	T	R	P	P	A	P	A	S	A	K	K	S	K	G	A	A	S	G	G	Q	GI 1279766	
80	S	T	S	Y	Q	V	Q	E	A	D	S	L	A	S	V	Q	L	G	A	T	R	P	T	A	P	A	S	A	K	R	T	K	A	A	T	A	G	G	Q	GI 1305497	
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492199			
120	G	G	A	P	R	K	E	K	K	G	K	H	K	G	T	S	G	P	A	T	L	A	E	D	K	S	E	A	Q	G	P	V	Q	I	L	T	V	G	Q	S	GI 1279766
120	G	G	A	P	R	K	E	K	K	G	K	H	K	G	T	S	G	P	A	L	A	E	D	K	S	E	A	Q	G	P	V	Q	I	L	T	V	G	Q	S	GI 1305497	
111	D	A	E	N	T	V	D	T	A	S	K	P	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492199		
160	D	H	D	K	D	A	G	E	T	A	A	G	G	G	A	Q	P	S	G	Q	D	L	R	A	T	M	Q	R	K	G	I	S	S	S	M	S	F	D	E	D	GI 1279766
160	D	H	A	Q	D	A	G	E	T	A	A	G	G	G	E	R	P	S	G	Q	D	L	R	A	T	M	Q	R	K	G	I	S	S	S	M	S	F	D	E	D	GI 1305497
143	T	D	G	I	S	Q	S	A	C	L	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	492199		
200	E	-	D	E	D	E	N	S	S	S	S	S	Q	L	N	S	N	T	R	P	S	S	A	T	S	R	K	S	I	R	E	A	A	S	A	P	S	P	A	A	GI 1279766
200	E	E	D	E	E	N	S	S	S	S	S	Q	L	N	S	N	T	R	P	S	S	A	T	S	R	K	S	V	R	E	A	A	S	A	P	S	P	T	A	GI 1305497	
176	Q	P	A	D	N	L	L	G	D	I	D	D	L	E	D	F	V	Y	S	P	A	P	Q	G	V	T	V	R	C	R	I	I	R	D	K	R	G	M	D	R	492199
239	-	P	E	P	P	V	D	I	E	V	Q	D	L	E	E	F	A	L	R	P	A	P	Q	G	I	T	I	K	C	R	I	T	R	D	K	K	G	M	D	R	GI 1279766
240	-	P	E	Q	P	V	D	V	E	V	Q	D	L	E	E	F	A	L	R	P	A	P	Q	G	I	T	I	K	C	R	I	T	R	D	K	K	G	M	D	R	GI 1305497

FIGURE 2A

FIGURE 2B

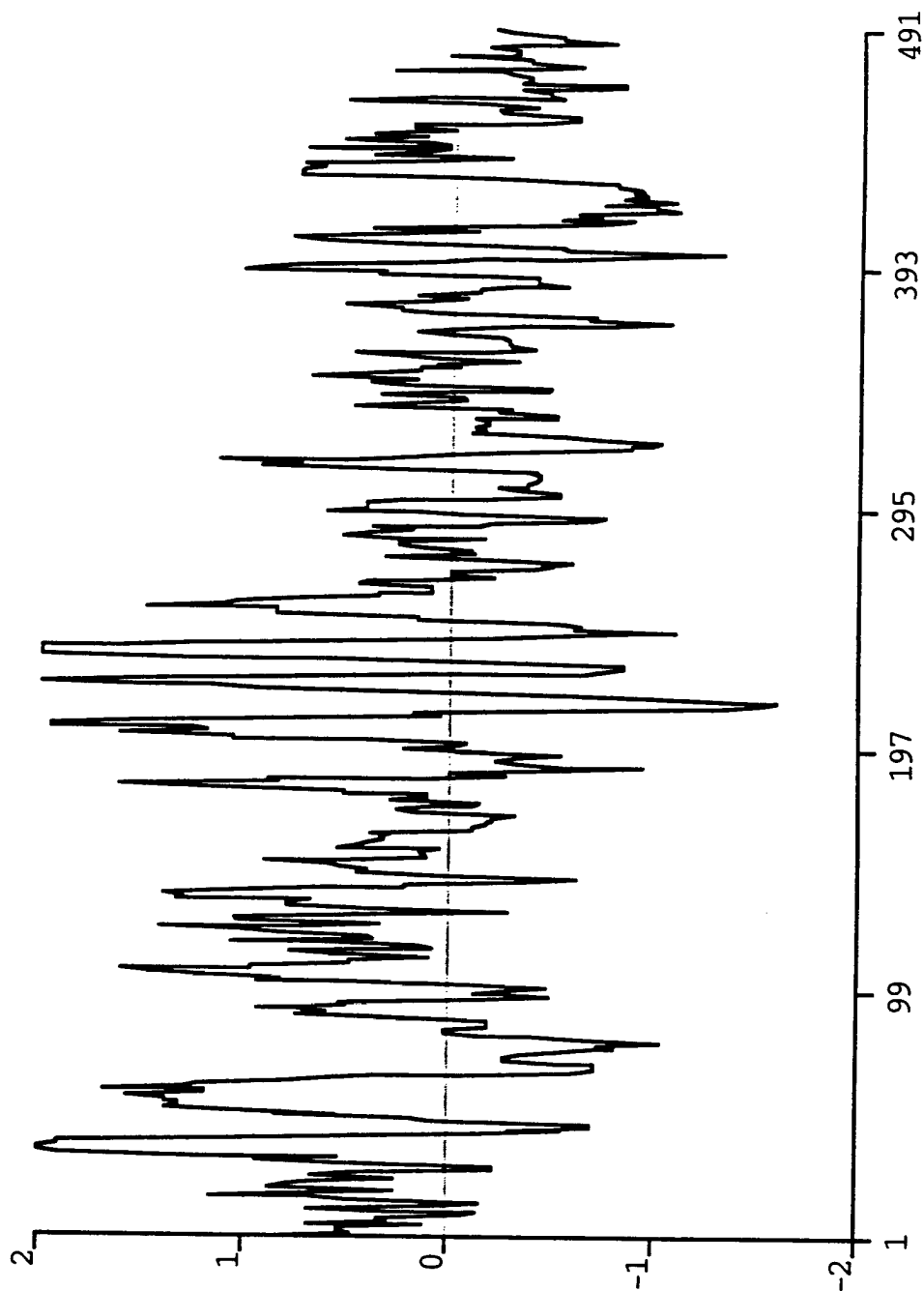


FIGURE 3A

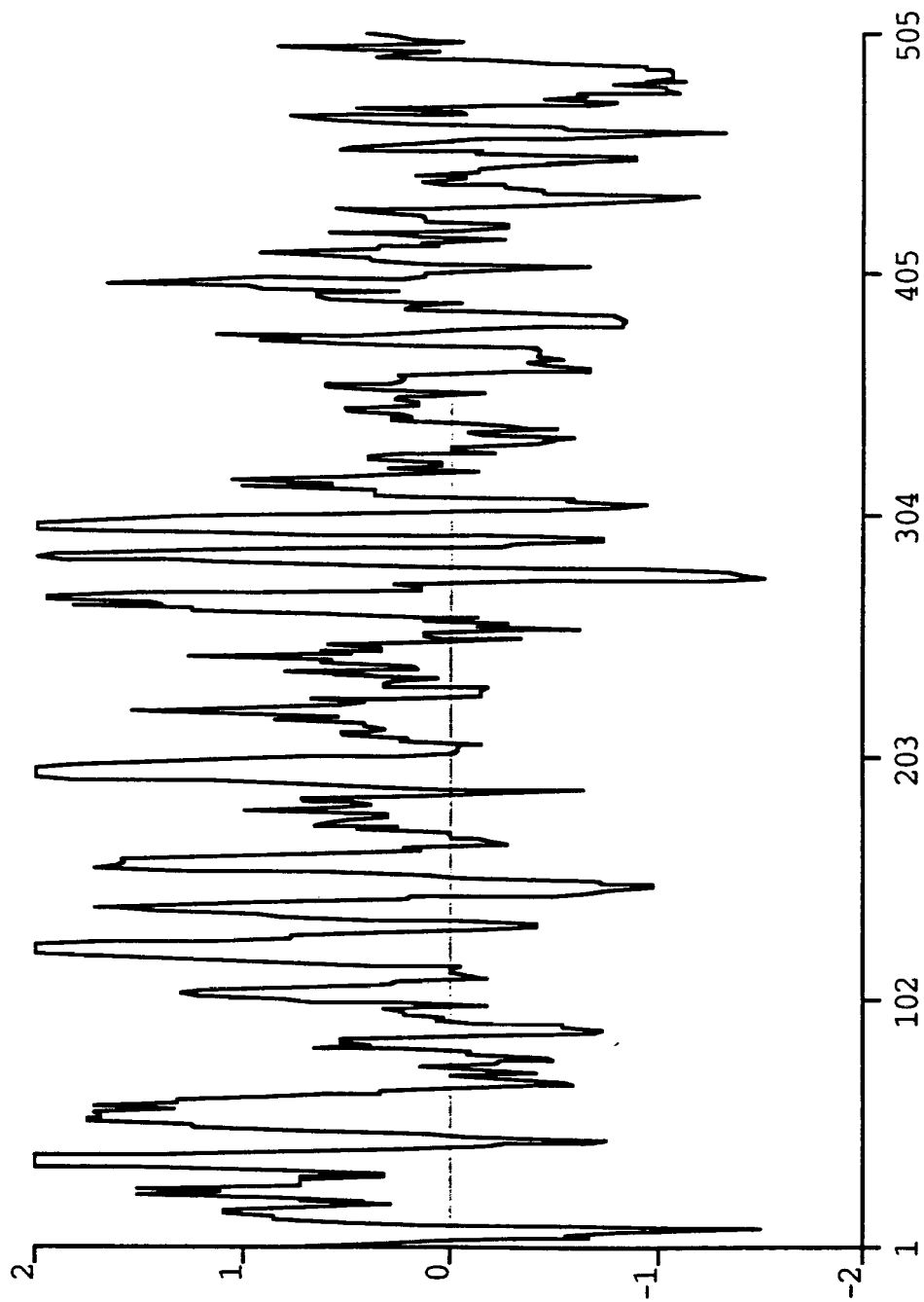


FIGURE 3B